Town of Speedway Wastewater Treatment Plant

| Plant Influent | <u>2015</u> | <u>2014</u> | Increase (Decrease) |
|---|-------------|-------------|---------------------|
| Proving the transfer of the second | 40.4 | 00.00 | 0.44 |
| Precipitation, inches | 48.4 | 38.96 | 9.44 |
| Total gallons treated, MG | 1,847.06 | 1,779.88 | 67.18 |
| Total raw sewage captured & treated, % | 98.6 | 99.67 | (1.1) |
| Average daily flow, MGD | 5.05 | 4.88 | 0.17 |
| Highest average daily flow, MGD | 7.59 | 6.63 | 0.96 |
| Gallons per capita per day | 230 | 222 | 8 |
| Population Equivalent | 27,858 | 22,272 | 5,586 |
| Industrial Flow, MG | 205.55 | 208.10 | (2.55) |
| Carbonaceous Biochemical Oxygen Demand, mg/l | 154 | 133 | 04 |
| CBOD, highest monthly average, mg/l | 229 | 178 | 21 51 |
| CBOD, flighest flighting average, flight | | | |
| CBOD, total pourids | 2,231,355 | 1,784,978 | 446,377 |
| Total Suspended Solids, mg/l | 138 | 150 | (12) |
| TSS, highest monthly average, mg/l | 204 | 201 | (12) |
| TSS, total pounds | 2,030,823 | 2,045,304 | (14,481) |
| 100, total pourids | 2,030,023 | 2,040,004 | (17,701) |
| Ammonia, mg/l | 15.76 | 12.75 | 3.01 |
| Ammonia, highest monthly average, mg/l | 20.76 | 19.30 | 1.46 |
| Ammonia, total pounds | 225,828 | 172,401 | 53,427 |
| 7 IIIII ona, total pour as | 220,020 | 172,101 | 00,121 |
| Combined Sewer Overflows ¹ | 14 | 3 | 11 |
| CSO, total gallons discharged, MG | 26.34 | 5.88 | 20.46 |
| Percentage of total raw sewage untreated | 1.4 | 0.3 | 1.1 |
| Final Effluent | | | |
| | | | |
| CBOD, mg/l | 3.5 | 3.2 | 0.3 |
| CBOD, highest monthly average, mg/l | 6.0 | 8.0 | (2.0) |
| | | | |
| CBOD, pounds removed | 2,183,557 | 1,730,438 | 453,119 |
| CBOD, percent removal | 97.9 | 97.6 | 0.3 |
| | | | |
| TSS, mg/l | 7.7 | 6.4 | 1.3 |
| TSS, highest monthly average, mg/l | 10.0 | 10.3 | (0.3) |
| TSS, pounds removed | 1,924,882 | 1,963,020 | (38,138) |
| TSS, percent removal | 94.8 | 94.9 | (0.1) |
| Ammonia, mg/l | 0.54 | 0.31 | 0.23 |
| Ammonia, highest monthly average, mg/l | 0.82 | 0.91 | (0.09) |
| Ammonia, pounds removed | 218,997 | 168,234 | 50,763 |
| Ammonia, percent removal | 97.0 | 96.9 | 0.1 |
| 27, 5000000000000000000000000000000000000 | | 23.0 | 011 |
| E.coli, colonies per 100ml | 26 | 32 | (6) |
| Facility with a rational state of the state | | | |
| E.coli, number of days over 235 | 2 | 0 | 2 |

Town of Speedway Wastewater Treatment Plant

| | | | | | | <u>2015</u> | | <u>2014</u> | <u>Increa</u> | se (Decrease) |
|------------------|---|---|--------------------------|----------------|------|-------------------|------|--------------------|---------------|---------------|
| | | | | | | | | | | |
| Effluent \ | /iolations | | | | | 0 | | 0 | | 0 |
| Cludes F | \ | | | | | | | | | |
| Sludge D | <u>Jata</u> | | | | | | | | | |
| Gallons p | roducod | | | | | 11,829,000 | | 8,677,000 | | 3,152,000 |
| | rocessed | | | | | 9,731,800 | | 10,890,400 | | (1,158,600) |
| Calloris p | 10063360 | | | | | 9,731,000 | | 10,030,400 | | (1,130,000) |
| Wet tons | produced | | | | | 2,386 | | 3,647 | | (1,261) |
| | removed (| I and Appli | cation) | | | 2,370 | | 2,141 | | 229 |
| Disposal | • | Lana Appii | | | \$ | 59,182.25 | \$ | 57,353.27 | \$ | 1,828.98 |
| <u> </u> | cost per to | n | | | \$ | 24.97 | \$ | 26.79 | \$ | (1.82) |
| 2.opoda. | | · · | | | _ | 2 | Ψ_ | 200 | Ψ | (1.62) |
| Methane | produced, | ccf | | | | 118,581 | | 145,179 | | (26,598) |
| | | | | | | | | | | (==,==) |
| | | | | | | | | | | |
| Methane | used (boile | er). ccf | | | | 67,648 | | 66,909 | | 739 |
| | | | | | | 01,010 | | | | |
| Cost Dat | a ² | | | | | | | | | |
| Oost Dat | <u>u</u> | | | | | | | | | |
| Total Rev | /enue | | | | \$ | 6,746,878.61 | \$ | 6,495,122.95 | \$ | 251,755.66 |
| | enditures | | | | \$ | 6,472,179.17 | \$ | 5,519,694.00 | \$ | 952,485.17 |
| | n & Mainter | nance Cos | ts | | \$ | 3,759,962.57 | \$ | 3,574,312.84 | \$ | 185,649.73 |
| o por autor | | | | | _ | 0,7.00,002.07 | Ψ_ | 0,011,012.01 | Ψ | 100,010110 |
| Cost per | Capita | | | | \$ | 294.19 | \$ | 250.90 | \$ | 43.29 |
| | Million Gal | lons Treate | ed | | \$ | 3,504.04 | \$ | 3,101.16 | \$ | 402.88 |
| • | pound of C | | | | \$ | 0.50 | \$ | 0.54 | \$ | (0.03) |
| | pound of T | | | | \$ | 0.50 | \$ | 0.54 | \$ | (0.03) |
| Cost per | pound of A | mmonia T | reated | | \$ | 0.50 | \$ | 0.54 | \$ | (0.03) |
| | | | | | | | | | | , , |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Definitio | ns_ | | | | | | | | | |
| | | | | | | | | | | |
| CBOD - | | | | | | ater or wastewa | | | | |
| | | | | | | nditions. In deco | | | | |
| | matter serves as food for the bacteria and energy results from its oxidation. CBOD | | | | | | | | | |
| | measurer | ments are u | used as a i | measure of th | e st | rength of organi | c wa | astes in water. | | |
| | | | | | | | | | | |
| cf - cubic | teet | | | | | | | | | |
| 000 | a a medicine di | | mfl a.v. · · · · · · · · | : | | | | d 4 - · · - · · | | |
| CSO - | O - combined sewer overflow. A point where a mixture of stormwater and wastewater in a combined sewer discharges untreated to a water body. | | | | | | | | | |
| - | in a comb | nnea sewe | i discharge | es untreated t | o a | water body. | | | | |
| m a /l | millianass | | \ maca::== | of the sames | ntra | tion by waight of | 0.5 | ubotonos nas ····s | 4 | |
| mg/l - | milligrams per liter. A measure of the concentration by weight of a substance per unit | | | | | | | | | |
| | volume. For practical purposes, one mg/l of a substance in water is equal to one part per million parts. (ppm) | | | | | | | | | |
| | one part | ווווווווווווווווווווווווווווווווווווווו | ραιτο. (μρη | <i> </i> | | | | | | |
| MG - | million as | llone | | | | | | | | |
| IVIG - | million gallons | | | | 1 | | | | | |

| MGD - | million ga | | | | | | |
|-------------|-----------------------------------|--------------|--------------|-------------------|-------------------------|-----------------------|-----------------|
| | | | | | | | |
| Operatio | n & mainte | nance cost | s - that po | rtion of the to | tal expenditures attr | ibuted solely | |
| | to the ope | eration and | maintena | nce of the tre | atment plant and co | llection system. | |
| | | | | | | | |
| Population | on Equivale | nt - a mea | ns of expre | essing the str | ength of organic ma | terial in wastewater. | În a |
| | domestic | wastewate | er system, | microorganis | ms use up about 0.2 | pounds of oxygen p | per day |
| | for each person using the system. | | | | | | |
| | | | | | | | |
| TSS - | Total Sus | pended Sc | olids. Solid | s that either f | loat on the surface of | or are suspended in | |
| | wastewat | er, and wh | ich are lar | gely removab | le by laboratory filter | ing. The quantity of | |
| | material r | | | | | | |
| | suspended solids. | | | | | | |
| | | | | | | | |
| Footnote | Footnotes: | | | | | | |
| | | | | | | | |
| 1. All of t | he CSO's i | n 2014 and | 2015 met | t the criteria fo | or enforcement disc | retion from IDEM. 9 | of the 14 CSO's |
| in 201 | 5 were in J | uly due to a | a major sto | orm. There wa | as 13.7" of rain and | widespread power or | utages. |
| 2. The 20 | 014 cost da | ıta has bee | n revised | based on the | best information cur | rently available. | |